

**CLAIMS:**

1. A burner for a heat generator comprising an outlet connectable to a combustion chamber, wherein at least part of an inner surface of the outlet is provided with corrugations which are adapted to facilitate the production of axial vorticity in the region of the outlet.
2. A burner as claimed in Claim 1, wherein the corrugations are provided over substantially all of the inner surface of the outlet.
3. A burner as claimed in Claim 2 or 3, wherein the outlet is in the form of a nozzle.
4. A burner as claimed in any one of the preceding claims, wherein the corrugations are in the form of lobes.
5. A burner as claimed in any one of the Claims 1 to 3, wherein the corrugations are rectangular or triangular in cross-section.
6. A burner as claimed in any one of the preceding claims, wherein the ratio of the length to the depth of the corrugations is from 1:1 to 10:1.
7. A burner as claimed in Claim 6, wherein the ration of the length to the depth of the corrugations is from 1:1 to 3:1.
8. A burner as claimed in any one of the preceding claims, wherein the corrugations extend over at least 20% of a mixing section of the burner.
9. A heat generator having a burner as claimed in any one of the preceding claims.